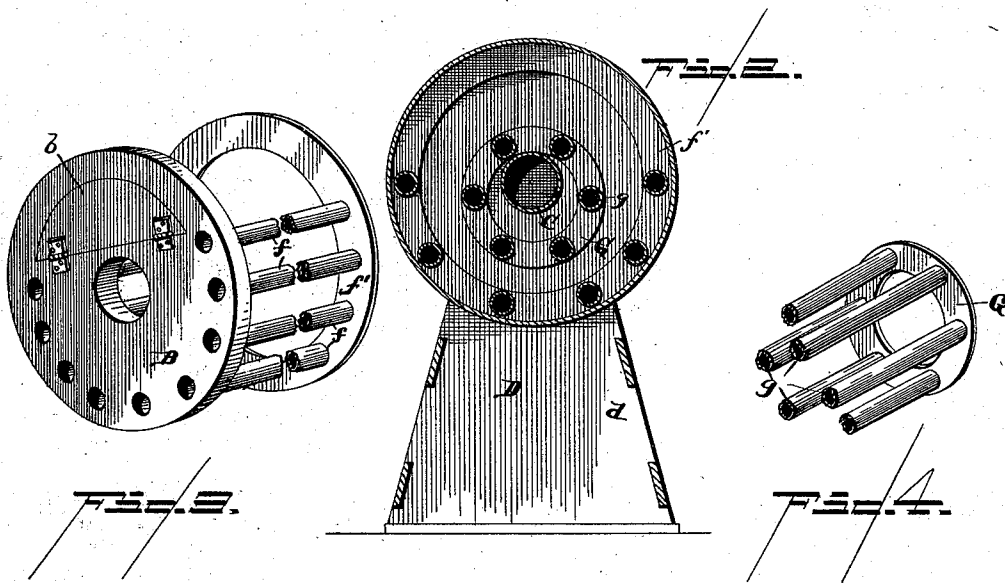
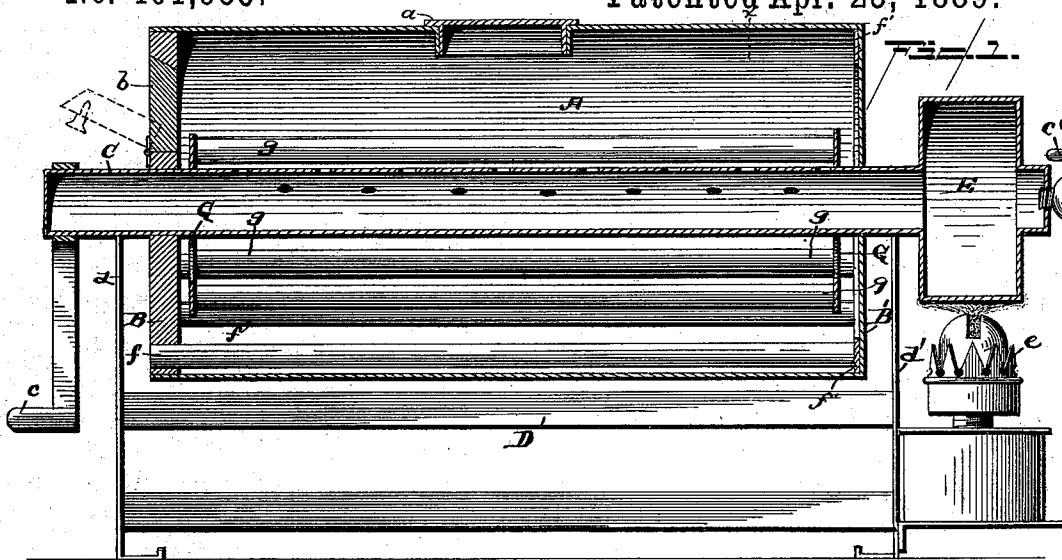


(No Model.)

W. S. LANEY.  
WASHING MACHINE.

No. 401,956.

Patented Apr. 23, 1889.



WITNESSES.  
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# UNITED STATES PATENT OFFICE.

WILLIAM S. LANEY, OF LITHOPOLIS, OHIO.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 401,956, dated April 23, 1889.

Application filed June 12, 1888. Serial No. 276,805. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM S. LANEY, a citizen of the United States, residing at Lithopolis, in the county of Fairfield and State of Ohio, have invented certain new and useful Improvements in Washing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to washing-machines, and has for its object the provision of a machine for washing and steaming clothes that will be simple, compact, efficient, and convenient to handle.

The improvement consists of the details of construction and combination of the parts, which hereinafter will be more fully described and claimed, and shown in the annexed drawings, in which—

Figure 1 is a side view, parts being broken away, of a washing-machine embodying my invention; Fig. 2, a cross-section on the line X X of Fig. 1. Fig. 3 is a detail perspective view, parts being broken away, showing the manner of supporting the rubbing-bars in the cylinder; and Fig. 4 is a detail perspective view of one end of the beater or agitator.

The horizontal cylinder A is closed at its ends by the heads B and B', and is mounted on the steam-pipe C, which extends at each end beyond the heads of the cylinder, and is journaled at its ends within the standards d of the frame D. One end of the steam-pipe is provided with the crank c and the other end with the cock c', to let off the steam before removing the clothes from the cylinder. The drum E, near the end of the steam-pipe and communicating therewith, holds the water that is converted into steam during the process of washing, and the heater or furnace e, located below the drum, converts the water in the said drum into steam. The cylinder is provided with rubbing-bars f, which are supported at one end in the head B and at their other ends in the ring f'.

The beater or agitator is composed of the two rings G and the rods or slats g, having their ends secured to the rings, and is mounted on the steam-pipe, the rings being smaller than the diameter of the cylinder to permit the beater to move freely up and down and right and left.

The head B is provided with the hinged door b, and the cylinder has the door a, through which the clothing is inserted and removed and the water is poured in and drawn off.

The clothes to be washed are placed in the cylinder and the suds-water is poured in until the cylinder is about half-full. The pipe C being perforated, the water will enter the pipe and flow to the drum, filling it to the level of the water in the cylinder. Now the door a is closed and, fitting snugly, will prevent the escape of the steam. The fire is started in the heater, and, the water in the drum being raised to the state of ebullition, the steam escapes into the cylinder through the perforations in the steam-pipe. When the water boils, the cylinder is rotated by the crank or other means until the washing is completed. Then the steam is let off by opening the cock c' and the clothes removed.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the cylinder, of the perforated steam-pipe passing through the cylinder and journaled at its ends and the steam-generating drum mounted wholly and entirely on one end of the said steam-pipe and communicating therewith, the said drum and pipe revolving together, substantially as hereinbefore set forth.

2. In a washing-machine, the combination of the cylinder having a door in its side, the heads closing the ends of the cylinder, one head having a door, the ring, as f', and the rubbing-bars having their ends fitted in the head and in the ring f' at the end of the cylinder opposite the said head, substantially as described.

3. The herein shown and described washing-machine, composed of the stand, the cylinder having rubbing-bars which are supported at their ends in the cylinder-heads, the

perforated steam-pipe passing through the  
cylinder and having its ends journaled in the  
stand, and the steam-generating drum mount-  
ed wholly on the steam-pipe and communi-  
5 cating therewith and revolving with the cyl-  
inder and steam-pipe, substantially as and for  
the purpose described.

In testimony whereof I affix my signature in  
presence of two witnesses.

WILLIAM S. LANEY.

Witnesses:

GEO. W. MASON,  
WM. H. LANE.